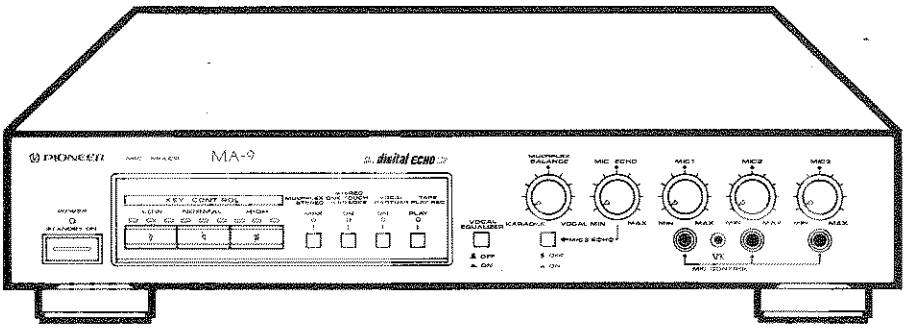
Operating Instructions

MIC MIXER

MA-9



Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT NOTICE

[For U.S. and Canadian models]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

[For Canadian models]

CAUTION:

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED)PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

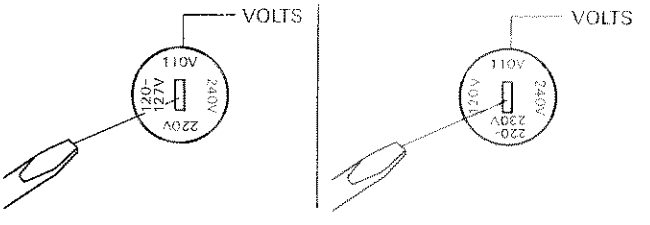
LINE VOLTAGE SELECTOR SWITCH

Only multi-voltage models are provided with this switch. U.S., Canadian, European, U.K., and Australian models are not provided with it.

Mains voltages in Saudi Arabia are 127V and 220V only. Never use this model with 110V setting in Saudi Arabia.

The line voltage selector switch is on the rear panel. Before the model is shipped from the factory, this switch is set to the power requirements of each destination. Check that it is set properly before plugging the power cord into the AC wall socket. If the switch is not properly adjusted to the voltage, or if the place of residence is changed to an area where the voltage requirements differ, adjust the selector switch as follows:

1. Use a medium-size screwdriver.
2. Insert the screwdriver into the groove on the voltage selector, and adjust the tip of the arrow so that it points to the printed voltage value for each area.



Except for Singapore model **For Singapore model**

PIONEER®
The Art of Entertainment

IMPORTANT

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT

If the apparatus is fitted with AC mains power outlet(s), see REAR PANEL FACILITIES for convenient connection of additional Hi-Fi component(s). Make all connections to the AC outlet(s) and the signal terminals first. Connect the plug to the wall socket last, make sure that the power switch is off.

FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured marking identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
Neither wire is to be connected to the earth terminal of a three pin plug.
Equipment sold in the U.K. is not supplied with a power plug.

SAFETY INSTRUCTIONS

READ INSTRUCTIONS — All the safety and operating instructions should be read before the appliance is operated.

RETAIN INSTRUCTIONS — The safety and operating instructions should be retained for future reference.

HEED WARNING — All warnings on the appliance and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.

WATER AND MOISTURE — The appliance should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

LOCATION — The appliance should be installed in a stable location.

WALL OR CEILING MOUNTING — The appliance should not be mounted to a wall or ceiling.

VENTILATION — The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

HEAT — The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

POWER SOURCES — The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

POWER-CORD PROTECTION — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

POLARIZATION — If your purchased product is provided with a polarized power plug, please read the following instructions. This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

CLEANING — The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

POWER LINES — An outdoor antenna should be located away from power lines.

NONUSE PERIODS — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

OBJECT AND LIQUID ENTRY — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

DAMAGE REQUIRING SERVICE — The appliance should be serviced by a Pioneer authorized service center or qualified service personnel when:

- The power-supply cord or the plug has been damaged.
- Objects have fallen, or liquid has been spilled into the appliance.
- The appliance has been exposed to rain.
- The appliance does not appear to operate normally or exhibits a marked change in performance.
- The appliance has been dropped or the enclosure damaged.

SERVICING — The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

OUTDOOR ANTENNA GROUNDING — If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.
In the U.S.A. section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig. A

CART — An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

NEC — NATIONAL ELECTRIC CODE

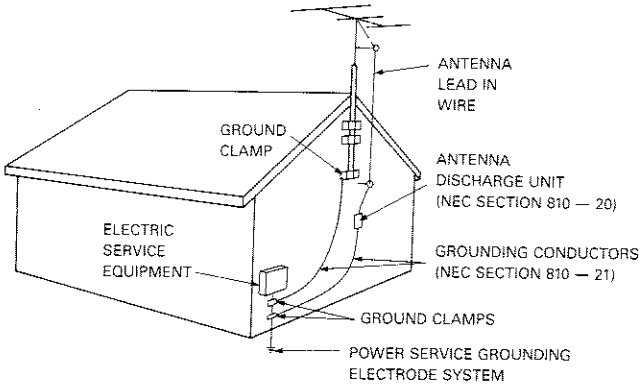


FIG. A

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[For Canadian model]
This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

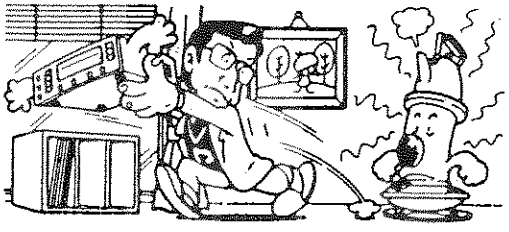
Information to User
Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

INSTALLATION

LOCATION

Install the amplifier in a well ventilated location where it will not be exposed to high temperatures or humidity.

Do not install the amplifier in a location which is exposed to direct sunlight or near hot appliances or radiators. Excessive heat can adversely affect the cabinet and internal components. Installation of the amplifier in a damp or dusty environment may result in a malfunction or an accident. (Also avoid an installation near cookers etc., where the amplifier may be exposed to smoke, steam or heat.)



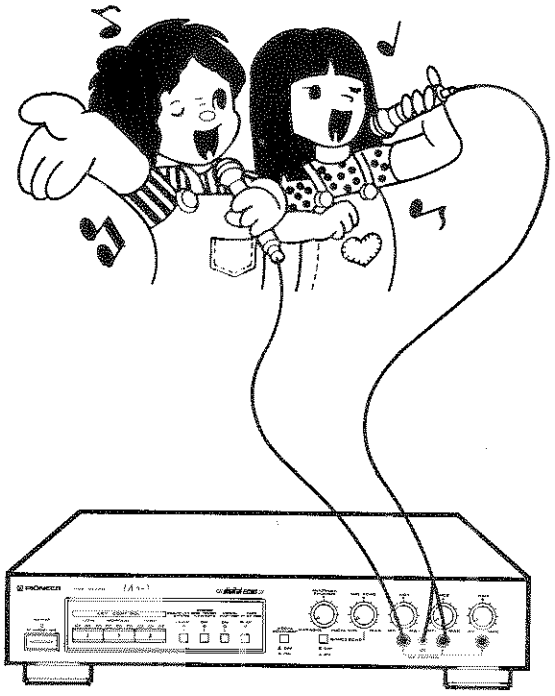
POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord, and never touch the power cord when your hands are wet, as this could cause a short circuit or electric shock. Do not place this unit or a piece of furniture, etc., on the power cord, and do not pinch the cord. Never make a knot in a cord or tie it with other cords. The power cords should be routed so that they are not likely to be stepped on. A damaged power cord can a cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask the nearest authorized PIONEER service center or your dealer for a replacement.

Maintenance of External Surfaces

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are very dirty, wipe them with a soft cloth dipped in some neutral cleaner diluted five or six times with water, and then wipe them again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insectiside sprays and other chemicals on or near this unit, since these will corrode the surfaces.

AVAILABLE FEATURES



You can enjoy LASER KARAOKE by connecting the MA-9 to the AV television set or another stereo system equipped with a LaserDisc player.

- The Microphone Mixing function for three voices is available. The MIC 3 can be used for the master of ceremonies, and the MIC 1 and 2 for vocals or instruments.
- The High-Quality Digital Echo function allows you to freely add echo effects to the microphone voices. (The ON/OFF function for echo effects is available only on the MIC 3.)
- The Key Control function can adjust the pitch of the music source to the vocals when the music source does not match the vocals. (A 9 step display is included).
- The Multiplex Balance function turns the volume of the original vocal from a multiplex source up and down so that you can practice singing the song.
- The Vocal Partner function replaces the original vocal part of the multiplex source with your own vocals if you begin to sing into a microphone when the original vocalist is singing the song.
- The STEREO ONE TOUCH KARAOKE function can treat the ordinary vocal-recorded stereo sources as a multiplex source. If you press the STEREO ONE TOUCH KARAOKE button when the ordinary song-recorded source is used, the Multiplex Balance and Vocal Partner functions are available in the same way as for a multiplex source.
- The Vocal Equalizer function creates a clear and rich vocal sound over a wide range.

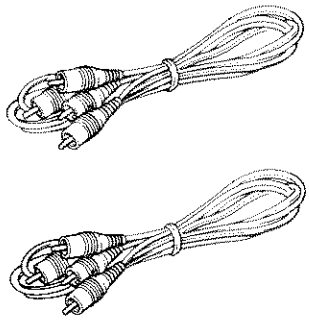
AC OUTLET (S) (UNSWITCHED)

Power flows continually to this outlet, regardless of whether mic mixer is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W. The equipment should be desconnected by removing the mains plug from the wall socket when in not in regular use, e.g. when on vacation.

NOTE:
Do not connect appliance with high power consumption such as heaters, irons, or television sets to the AC OUTLET in order to avoid overheating or fire risk.
This can cause the mic mixer to malfunction.

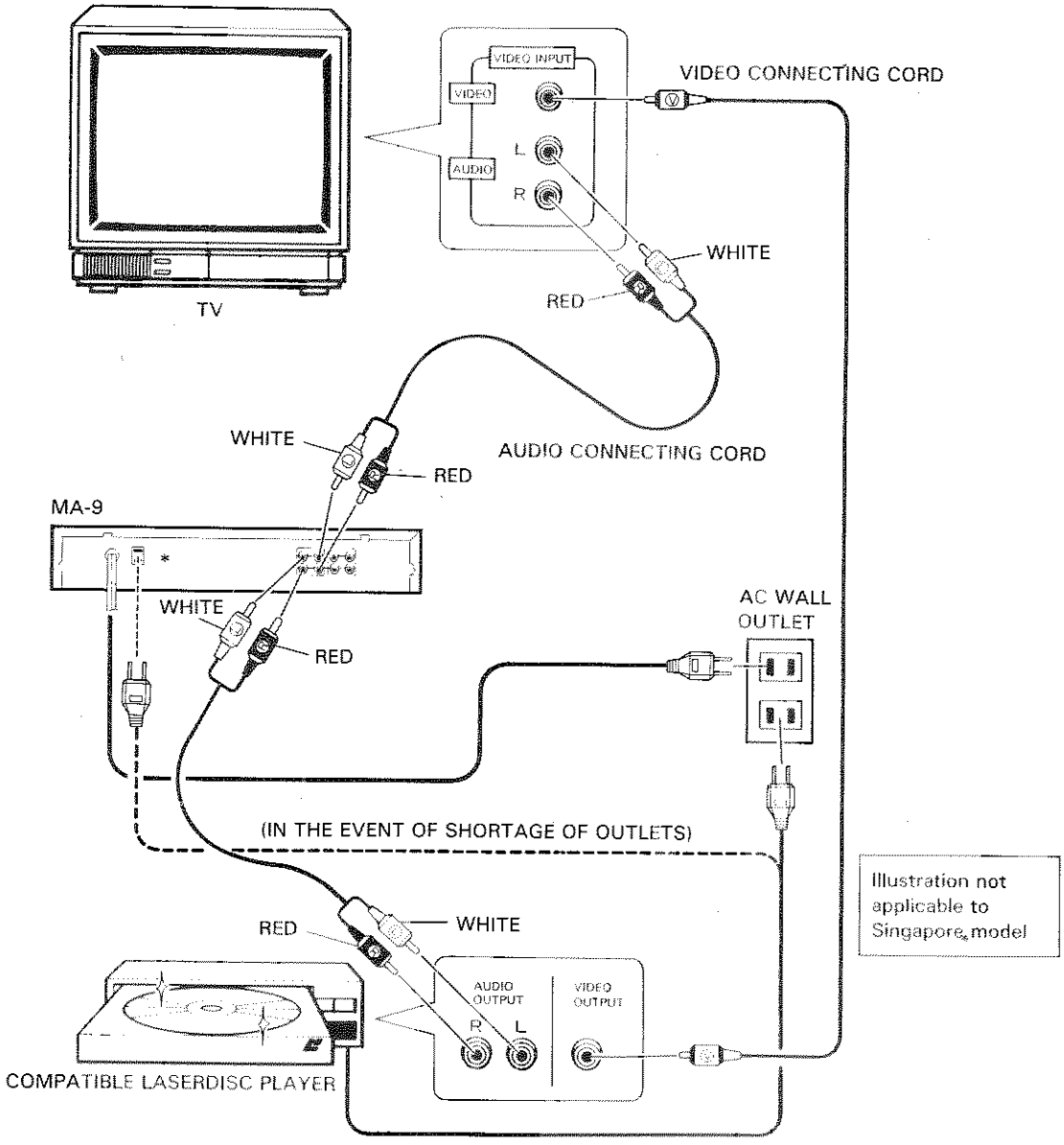
ACCESSORIES

Audio connecting cord x 2



CONNECTION

You can enjoy LASER KARAOKE by connecting the MA-9 to the AV television set equipped with a LaserDisc player.



POWER SUPPLY OUTLET

The MA-9 can be connected to other audio devices whose power requirements do not exceed the wattage indicated on the panel. Independently of the power supply to the MA-9, the power is supplied to the connected devices.

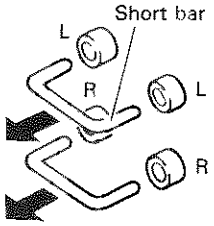
NOTE:
The positions of the AC outlet and AC cord located on the rear panel of the MA-9 shown in the diagram in this operating instructions can vary depending on the area in which the unit is sold (pages 5 ~ 7).

Rating of the power supply outlet

- Never connect to the MA-9 any electric appliances whose rating exceeds the wattage indicated on the panel (toaster, drier, etc.). This could cause a fire or a malfunction.
- Never connect a television set to the MA-9 since TV's switch-on current may exceed the limit value of the MA-9, even if the indicated rating is lower than the maximum allowable value.

* U.S. models are not equipped with an AC outlet.

You can enjoy Karaoke also by connecting the MA-9 with another stereo system whose amplifier is equipped with adapter terminals.



- The short bar is normally connected to the adapter terminal. After removing the short bar, perform the following connection.
  (Do not lose the short bar.)
- When the microphone mixing amplifier is not connected, leave the short bar in the adapter terminal. No sound will be generated with a removed short bar.
  (Refer to the amplifier's operating instructions.)

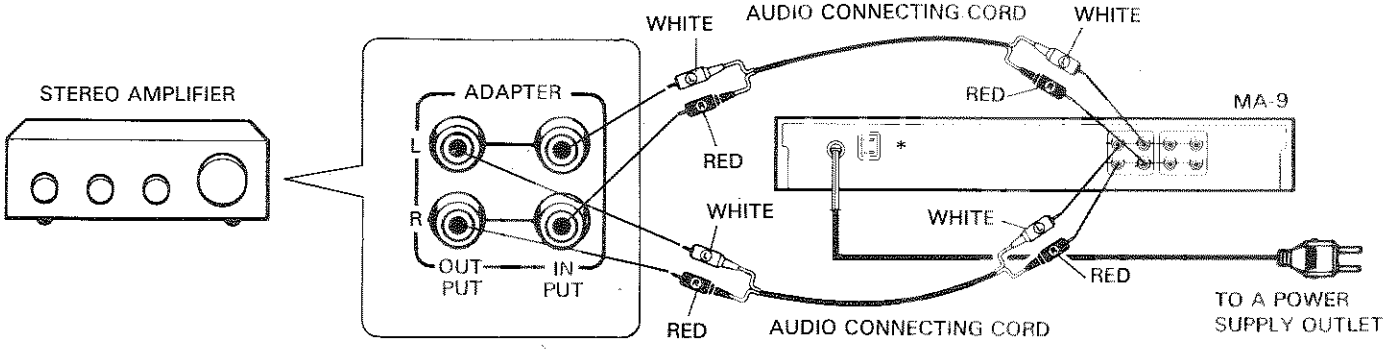


Illustration not applicable to Singapore model

You can enjoy KARAOKE also by connecting the MA-9 with another stereo system whose amplifier is not equipped with adapter terminals but with TAPE IN/OUT terminals.

If the IN/OUT terminals are not for a tape monitor (if they are simply tape function switches), they are not usable for this connection. See the operating instructions of the stereo amplifier to connect the MA-9 to its tape monitor terminals.

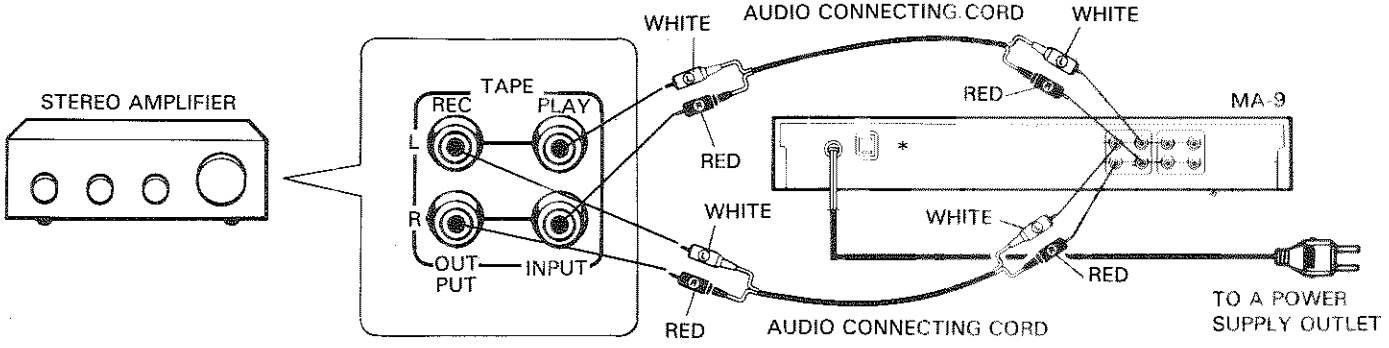
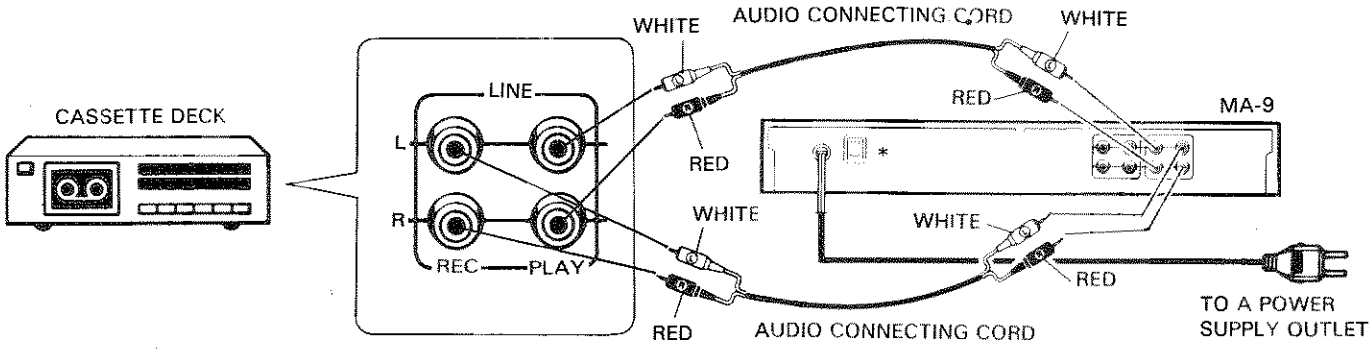


Illustration not applicable to Singapore model

* U.S. models are not equipped with an AC outlet.

In case the tape terminal of another amplifier are already being used because they are connected the MA-9.

- Make the connection at the precceding page, and perform the following connection.
- Connect a cassette deck with the MA-9 to tape-record your vocals accompanied by the music source.

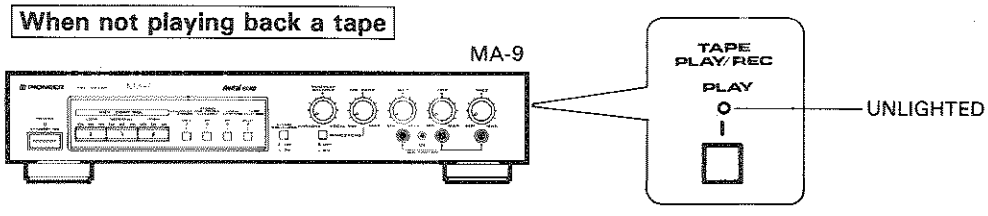


NOTE:
Unless playing back a tape on the cassette deck connected to the MA-9, leave the indicator unlighted with the TAPE PLAY/REC button at OFF. When playing back a tape on the cassette deck connected to the MA-9, light the indicator by turning on the POWER of the MA-9 and then pressing the TAPE PLAY/REC button of the MA-9.

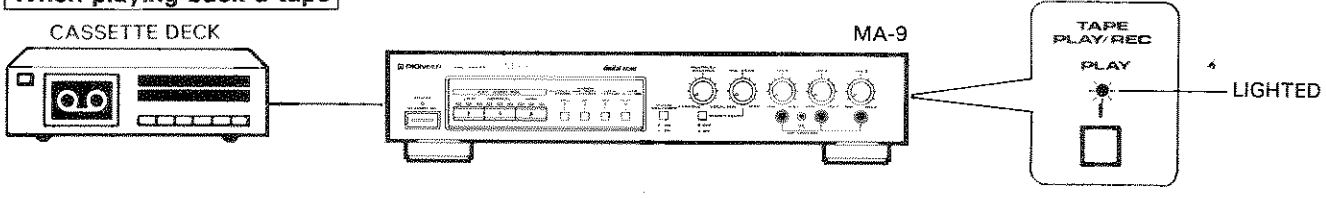
Illustration not applicable to Singapore model

* U.S. models are not equipped with an AC outlet.

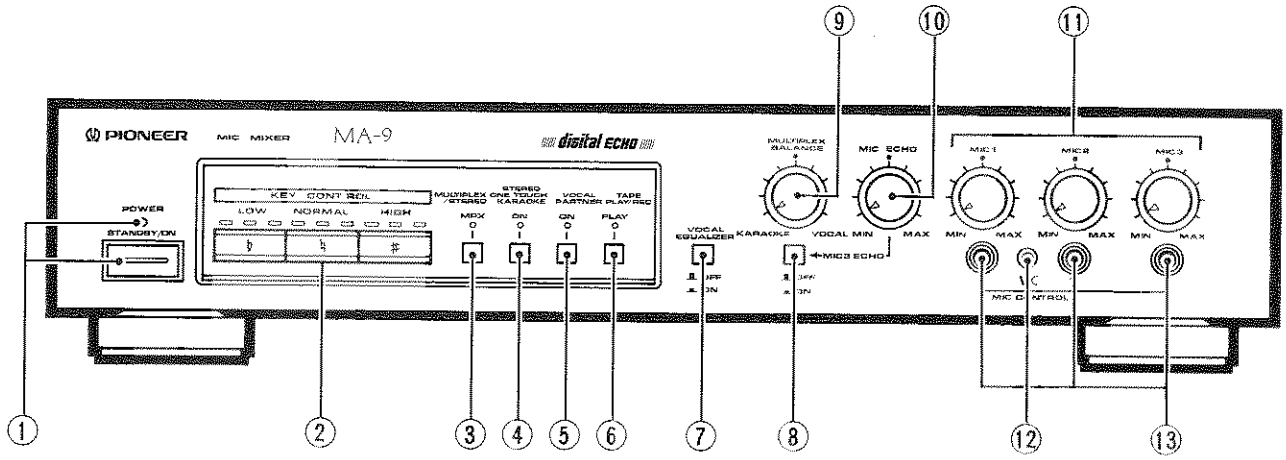
When not playing back a tape



When playing back a tape



FRONT PANEL FACILITIES



① POWER switch / indicator

Pressing the switch supplies the power and lights the indicator. Pressing it once again turns off the power and puts out the indicator.

> *NOTE:*
> *The unit's POWER switch is geared to selecting the transformer's secondary and even at the STANDBY position, the unit's circuitry will work as long as the power cord is connected to power outlet.*

② KEY CONTROL button / indicator

♯: Pressing this button once moves the pitch of the music source a half-step higher when it is too low to accompany your vocals. (max. 4 steps)

♮ : Pressing this button returns the pitch to the original level.

♭ : Pressing this button once moves the pitch of the music source a half-step lower when it is too high to accompany your vocals. (max. 4 steps)

③ MULTIPLEX / STEREO button / indicator

To select a multiplex source, press this button to change the mode to multiplex. To select a stereo source, press the button to change the mode to stereo. The indicator lights in the multiplex mode.

④ STEREO ONE TOUCH KARAOKE button / indicator

When an ordinary vocal-recorded stereo source is used, pressing this button converts the source into a multiplex source (the indicator lights), and the MULTIPLEX BALANCE and VOCAL PARTNER functions are available. (The STEREO ONE TOUCH KARAOKE function can be utilized only when the MULTIPLEX / STEREO indicator is not lit.)

This function is not usable for a monaural source.

⑤ Vocal Partner button / indicator

When a multiplex source is played back in the multiplex mode, pressing this button activates the VOCAL PARTNER function. The original vocal is automatically suppressed when you are singing, but it automatically returns to help you if you come to a standstill in the middle of the text.

You can enjoy singing a duet with the original vocals. When an ordinary stereo source is used, pressing the STEREO ONE-TOUCH KARAOKE button and then this button converts the source into a multiplex source for added KARAOKE enjoyment.

⑥ TAPE PLAY / REC button / indicator

Pressing this button plays back a cassette tape on the cassette deck connected to the MA-9. (The indicator lights.) The indicator must remain unlit or you cannot perform tape-recording on a cassette deck.

⑦ Vocal Equalizer button

Pressing this button creates a clear and rich vocal sound over a wide range.

⑧ MIC 3 ECHO button

Pressing this button turns the echo effect ON/OFF only for MIC 3. When using the microphone for a master of ceremonies, you can turn off the echo effect.

⑨ MULTIPLEX BALANCE knob

When a multiplex source is used in the multiplex mode to play KARAOKE, turning this knob controls the volume of the original vocal. Turning it counterclockwise to the end plays back only the music source, and turning it clockwise decreases the volume of the original vocals gradually.

⑩ MIC ECHO knob

Turning this knob clockwise adds echo effects to all the vocals on all microphones.

⑪ MIC VOLUME CONTROL knobs

Turning these knobs adjusts the volume of the microphones connected to the MIC jacks.

⑫ MIC CONTROL jack

When the microphone cum the KEY CONTROL switch (DM-V161) is used, connect its control plugs with this jack. You can change the pitch of the music source using the switch on the microphones at hand.

⑬ MIC jacks

Insert the microphone plugs into these jacks

NOTE:
If plugs are not inserted fully, the microphones do not function.

OPERATING METHOD FOR KARAOKE PLAY

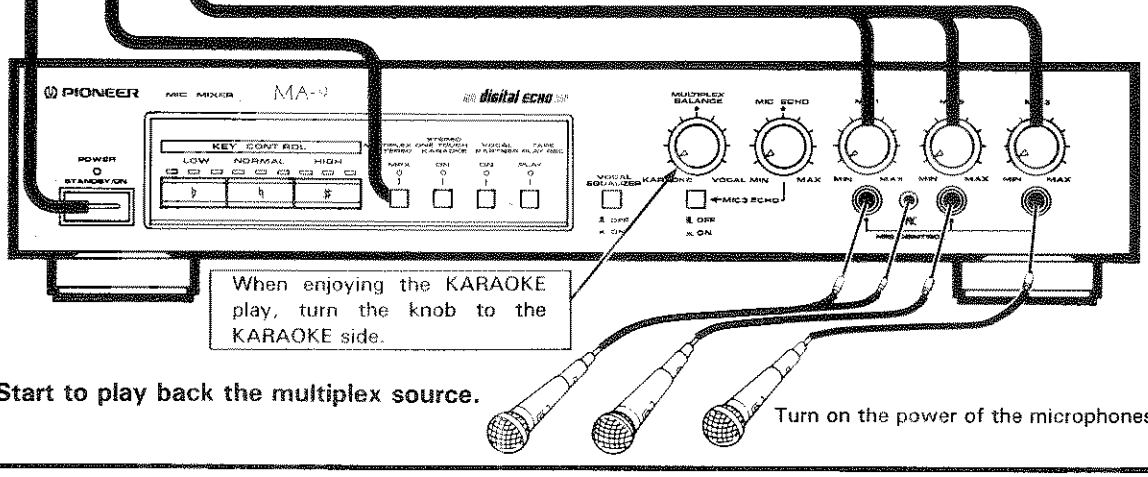
NOTE:
Unless playing back a tape on the cassette deck connected to the MA-9, leave the indicator unlighted with the TAPE PLAY/REC button at OFF. When playing back a tape on the cassette deck connected to the MA-9, light the indicator by turning on the POWER of the MA-9 and then pressing the TAPE PLAY/REC button of the MA-9.

When using a multiplex source such as MULTIPLEX KARAOKE LASERDISC or MULTIPLEX KARAOKE TAPE.

1 **Turn on the power.** (Also turn the power of the other devices on.)

2 **Press the MULTIPLEX / STEREO button. (The MPX indicator lights.)**

3 **Adjust the volume of the microphone.**



When enjoying the KARAOKE play, turn the knob to the KARAOKE side.

4 **Start to play back the multiplex source.**

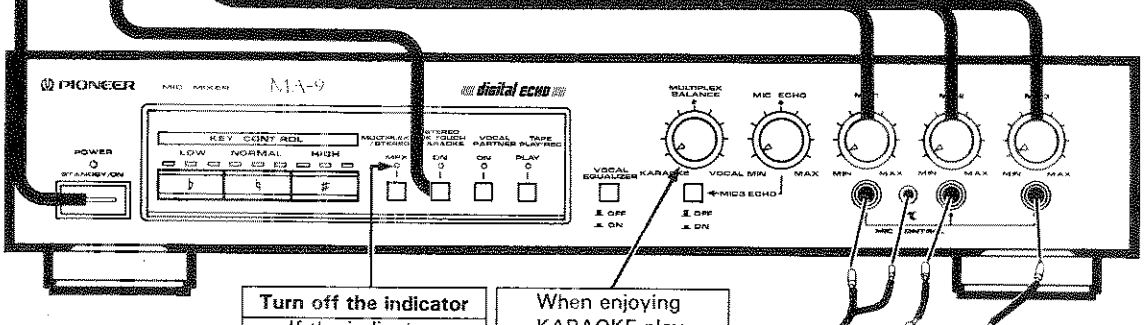
Turn on the power of the microphones.

When using an ordinary vocal-recorded stereo source such as MUSIC TAPE, COMPACT DISC or LASERDISC.

1 **Turn on the power.** (Also turn on the power of the other devices.)

2 **Press the STEREO ONE TOUCH KARAOKE button. (The ON indicator lights.)**

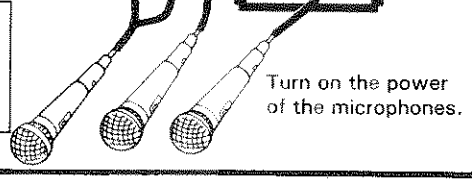
3 **Adjust the volume of the microphones.**



Turn off the indicator
If the indicator lights, press the lower button to turn off the indicator.

When enjoying KARAOKE play, turn the knob to the KARAOKE side.

4 **Start to play back the stereo source.**



Turn on the power of the microphones.

〈Tape-recording your vocal with the KARAOKE play〉

• When the MA-9 is connected to a cassette deck, you can tape-record your vocals using a cassette deck with the TAPE PLAY / REC button of the MA-9 at OFF (with the indicator turned off).

NOTE:
If tape-recording is performed with the STEREO ONE TOUCH KARAOKE button to ON, it results in monaural recording.

〈Microphone〉

When using the optional PIONEER DM-V161 microphone, connect the control mini-plugs to the MIC CONTROL jack.
Pressing the control key button of the microphone changes an music source to a lower or higher pitch. But the ONCE MORE button on the microphone is not usable for the MA-9.

〈Multiplex source〉

This kind of source includes the MULTIPLEX KARAOKE tape, MULTIPLEX KARAOKE LASER DISC, etc. Generally a vocal part plus its accompaniment (original vocal part) is recorded for the right channel, and another music source (KARAOKE part) is recoded for the left channel. Turning the MULTIPLEX BALANCE knob changes the channel gradually to the original vocals or the KARAOKE part.

〈Howling〉

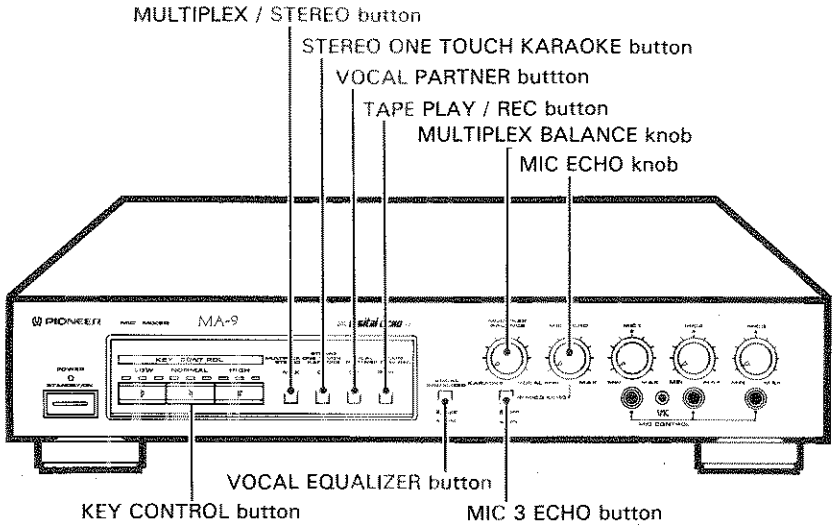
When the sound volume is turned up at the time of using a microphone, a howling sound may be heard from the speaker system. The howling phenomenon occurs because the sounds played back through the speakers are picked up again by the microphone and oscillate in the speaker system. In such a case, hold the microphone further away from the speaker system or turn down the sound volume of the stereo amplifier. Since howling may depend on the directional characteristics of the microphone, changing the direction or position of the microphone can also improve the situation.

〈When not using the MA-9〉

Turn off the power. If the power remains on, it may result in interference.

CONVENIENT FUNCTIONS FOR KARAOKE PLAY

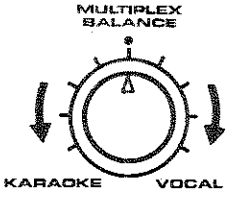
(Convenient and atmosphere-creating functions)



Convenient functions

To change the channel to the music source or the original vocal part.

Turn the MULTIPLEX BALANCE knob.



For the music source — For the original vocal part

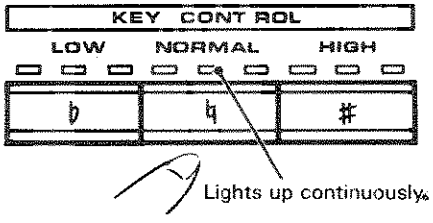
To change the music source to a desired key.

Press the KEY CONTROL button.

♯ : Pressing this button once moves the pitch of the music source a half-step higher. (max. 4 steps)

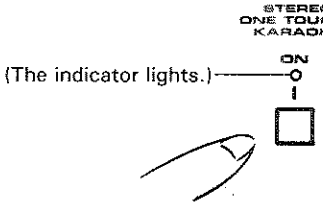
♮ : Pressing this button returns the pitch to the original level.

♭ : Pressing this button once moves the pitch of the music source a half-step lower. (max. 4 steps) The current key is shown by the indicator lamps.



To use a stereo source for KARAOKE

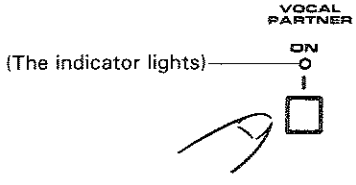
Press the STEREO ONE TOUCH KARAOKE button.



If the Stereo ONE TOUCH KARAOKE button is pressed when an ordinary vocal-recorded source is used, the Multiplex Balance and Vocal Partner functions are available in the same way as for a multiplex source. But, depending on the source, the original vocals may not be fully suppressed.

To replace the original vocals with your own vocals.

Press the VOCAL PARTNER button.



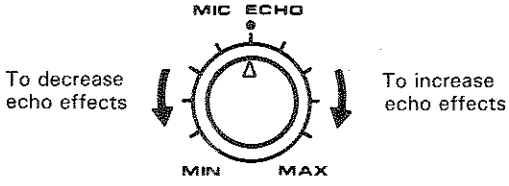
For example ···

when you sing a duet voice alone, you can take only the male (female) voice part while the original vocalist performs the female (male) voice part. This function is convenient for practicing the male or female part only.

Atmosphere-creating functions

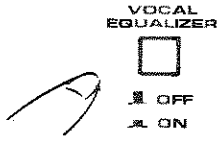
To control echo effects on the microphone.

Turning the MIC ECHO knob to the clockwise increases echo effects, and turning it to the counterclockwise decreases echo effects.



To creat a clear, rich and neat vocal sound with a wide range.

Press the VOCAL EQUALIZER button and your vocals will sound better.



Turn ON

NOTE:
To add VOCAL EQUALIZER to MIC 3, Turn ON the MIC 3 ECHO.

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think something is wrong with this unit, check the points below. Investigate the other components and electrical attachments being used. If the trouble cannot be rectified after the checks listed below, consult your nearest PIONEER authorized service center or your dealer.

Symptom	Cause	Remedy
1. The KARAOKE part cannot be played back. (The original vocals cannot be turned off.)	• The MULTIPLEX BALANCE knob is turned to the vocal side.	• Turn the MULTIPLEX BALANCE knob to the KARAOKE side.
2. The KARAOKE part cannot be played back, though the MULTIPLEX BALANCE knob is turned to the KARAOKE side.	• The position of the MULTIPLEX / STEREO button is not correct. • The STEREO ONE TOUCH KARAOKE button is not pressed.	• For a multiplex source, turn the indicator of the MULTIPLEX / STEREO button on. • For an ordinary stereo source, turn the indicator of the MULTIPLEX / STEREO button off. • Turn the indicator of the STEREO ONE-TOUCH KARAOKE button on.
3. The original vocals cannot be replaced with your vocals though the VOCAL PARTNER button is pressed.	• The volume of the microphone is too low. • Your singing voice is too low.	• Increase the sound volume. • Sing louder.
4. The KEY CONTROL function cannot be used on the DM-V161 for exclusive use.	• The control mini-plugs of the microphone are not connected to the MIC CONTROL jack. • The MIC switch is not turned ON.	• Connect the control mini-plugs to the MIC CONTROL jack. • Turn the MIC switch ON.
5. Sounds cannot be heard at the time of playing back a tape on the cassette deck connected to the MA-9.	• The power supply of the MA-9 is not turned ON. • The TAPE PLAY / REC button is not in the ON position.	• Turn the power on. • Set the TAPE PLAY / REC button to the ON position to turn on the indicator.
6. Tape-recording cannot be performed on the cassette deck connected to the MA-9.	• The TAPE PLAY / REC button is not in the OFF position.	• Set the TAPE PLAY / REC button to the OFF position to turn off the indicator.

SPECIFICATIONS

INPUT terminals (sensitivity / impedance)
- MIC ..... 1m V / 40 kΩ
- LINE,TAPE ..... 150m V / 50 kΩ

OUTPUT terminals (output level / output impedance)
- LINE, TAPE ..... 150m V / 1 kΩ

SN ratio (EIAJ)
- MIC ..... 72 dB
- LINE, TAPE ..... 85 dB

Microphone maximum allowable input
(1 kHz, distortion factor 1%) ..... 150m V

Echo reverberation time ..... 0 — 1.5 sec

Power Requirements
- U.S.and Canadian models ..... AC 120 V, 60 Hz
- Singapore model ..... AC 110 V/120 V /220~230V/240V (switchable), 50/60 Hz
- Other models ..... AC 110 V/120~127 V /220V/240V (switchable), 50/60 Hz

Power Consumption ..... 7 W

AC outlet (except for U.S. model) .. Unswitched (Max. 100 W)

Dimensions (W x H x D)
- Singapore model ..... 420 x 85 x 344.3 mm
- Other models ..... 420 x 85 x 336 mm

Weight (without package) ..... 3.2 kg

Accessories

Except for Canadian model
- Operating instructions 1
- "HOW TO ENJOY KARAOKE" 1
- Connecting cord 2

Canadian model
- Operating instructions 2
- "HOW TO ENJOY KARAOKE" 2
- Connecting cord 2

NOTE:
Specifications and design subject to possible modification with out notice, due to imposible.

Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decibel Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.

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